



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Akira Ishikawa  
Serial No. : 10/728,903  
Filed : December 8, 2003  
Title : SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

Art Unit : 2826  
Examiner : Tuan N. Quach  
Confirmation No.: 9311

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Applicant requests consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

Applicant notes that, in addition to the three patents cited in the search report, the search report identifies a substantial number of related family patents. In the interest of efficiency, applicants have only submitted one version of each group of references that shares a common disclosure.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: July 28, 2005

  
\_\_\_\_\_  
John F. Hayden  
Reg. No. 37,640

Customer No. 26171  
Fish & Richardson P.C.  
1425 K Street, N.W., 11th Floor  
Washington, DC 20005-3500  
Telephone: (202) 783-5070  
Facsimile: (202) 783-2331



|   |  |                                       |                               |
|---|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>         by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12732-075002 | Application No.<br>10/728,903 |
|   | Applicant<br>Akira Ishikawa                                |                                       |                               |
|   | Filing Date<br>December 8, 2003                            | Group Art Unit<br>2826                |                               |

| U.S. Patent Documents |           |                 |                  |                 |       |          |                            |
|-----------------------|-----------|-----------------|------------------|-----------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee        | Class | Subclass | Filing Date If Appropriate |
|                       | AA        | 5,166,556       | 11/24/1992       | Hsu et al.      |       |          | 01/22/1991                 |
|                       | AB        | 5,206,749       | 04/27/1993       | Zavracky et al. |       |          | 12/31/1990                 |
|                       | AC        | 5,256,562       | 10/26/1993       | Vu et al.       |       |          | 11/04/1992                 |
|                       | AD        | 5,258,325       | 11/02/1993       | Spitzer et al.  |       |          | 02/13/1992                 |
|                       | AE        | 5,317,236       | 05/31/1994       | Zavracky et al. |       |          | 12/31/1991                 |
|                       | AF        | 5,331,149       | 07/19/1994       | Spitzer et al.  |       |          | 12/04/1992                 |
|                       | AG        | 5,376,561       | 12/27/1994       | Vu et al.       |       |          | 04/24/1992                 |
|                       | AH        | 5,376,979       | 12/27/1994       | Zavracky et al. |       |          | 08/13/1993                 |
|                       | AI        | 5,396,304       | 03/07/1995       | Salerno et al.  |       |          | 02/10/1993                 |
|                       | AJ        | 5,444,557       | 08/22/1995       | Spitzer et al.  |       |          | 09/11/1992                 |
|                       | AK        | 5,467,154       | 11/14/1995       | Gale et al.     |       |          | 02/10/1993                 |
|                       | AL        | 5,475,514       | 12/12/1995       | Salerno et al.  |       |          | 08/11/1994                 |
|                       | AM        | 5,581,385       | 12/03/1996       | Spitzer et al.  |       |          | 03/24/1995                 |
|                       | AN        | 5,661,371       | 08/26/1997       | Salerno et al.  |       |          | 03/04/1996                 |
|                       | AO        | 5,666,175       | 09/09/1997       | Spitzer et al.  |       |          | 08/29/1994                 |
|                       | AP        | 5,692,820       | 12/02/1997       | Gale et al.     |       |          | 01/27/1995                 |
|                       | AQ        | 5,743,614       | 04/28/1998       | Salerno et al.  |       |          | 06/07/1995                 |
|                       | AR        | 5,751,261       | 05/12/1998       | Zavracky et al. |       |          | 08/13/1993                 |
|                       | AS        | 5,861,929       | 01/19/1999       | Spitzer         |       |          | 11/04/1992                 |
|                       | AT        | 6,022,792       | 02/08/2000       | Ishii et al.    |       |          | 03/12/1997                 |
|                       | AU        | 6,043,800       | 03/28/2000       | Spitzer et al.  |       |          | 06/06/1995                 |
|                       | AV        | 6,072,445       | 06/06/2000       | Spitzer et al.  |       |          | 06/07/1995                 |
|                       | AW        | 6,320,568 B1    | 11/20/2001       | Zavracky        |       |          | 12/27/1994                 |
|                       | AX        | 6,424,020 B1    | 07/23/2002       | Vu et al.       |       |          | 12/29/1997                 |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|  |  |                                       |                               |
|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12732-075002 | Application No.<br>10/728,903 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Akira Ishikawa           |                               |
|  |  | Filing Date<br>December 8, 2003       | Group Art Unit<br>2826        |

### Foreign Patent Documents or Published Foreign Patent Applications

| Examiner<br>Initial | Desig.<br>ID | Document<br>Number | Publication<br>Date | Country or<br>Patent Office | Class | Subclass | Translation |    |
|---------------------|--------------|--------------------|---------------------|-----------------------------|-------|----------|-------------|----|
|                     |              |                    |                     |                             |       |          | Yes         | No |
|                     | AY           |                    |                     |                             |       |          |             |    |
|                     | AZ           |                    |                     |                             |       |          |             |    |
|                     | AAA          |                    |                     |                             |       |          |             |    |
|                     | ABB          |                    |                     |                             |       |          |             |    |
|                     | ACC          |                    |                     |                             |       |          |             |    |

### Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner<br>Initial | Desig.<br>ID | Document  |
|---------------------|--------------|---|
|                     | ADD          | Australian Patent Office Communication – Search Report (Singapore Patent Application No. 200105539-1) dated September 30, 2004; 4 pages |
|                     | AEE          |   |
|                     | AFF          |   |
|                     | AGG          |   |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |